

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/S81,580
Source: LEW
Date Processed by STIC: 4/20/07

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IFWO

RAW SEQUENCE LISTING

DATE: 04/20/2007

PATENT APPLICATION: US/10/581,580

TIME: 11:08:09

Input Set : E:\12-06-04.ST25.txt

Output Set: N:\CRF4\04202007\J581580.raw

3 <110> APPLICANT: University of South Florida
 5 <120> TITLE OF INVENTION: Polynucleotides for Reducing Respiratory Syncytial Virus

Gene Expression

7 <130> FILE REFERENCE: USF-208TCXC1

C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/581,580

C--> 9 <141> CURRENT FILING DATE: 2006-06-02

9 <150> PRIOR APPLICATION NUMBER: 60/481,738

10 <151> PRIOR FILING DATE: 2003-12-04

12 <150> PRIOR APPLICATION NUMBER: 60/522,180

13 <151> PRIOR FILING DATE: 2004-08-26

15 <160> NUMBER OF SEQ ID NOS: 15

17 <170> SOFTWARE: PatentIn version 3.2

19 <210> SEQ ID NO: 1

20 <211> LENGTH: 62

21 <212> TYPE: DNA

22 <213> ORGANISM: Artificial Sequence

24 <220> FEATURE:

25 <223> OTHER INFORMATION: nucleotide sequence of the siRNA for RSV NS1, designated

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27 <400> SEQUENCE: 1

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30 tg 62

33 <210> SEQ ID NO: 2

34 <211> LENGTH: 54

35 <212> TYPE: DNA

36 <213> ORGANISM: Artificial Sequence

38 <220> FEATURE:

39 <223> OTHER INFORMATION: nucleotide sequence of the siRNA for RSV NS1, designated

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41 <400> SEQUENCE: 2

42 gtgtgccctg ataacaatat tcaagagata ttgttatcag ggcacacttt ttg 54

45 <210> SEQ ID NO: 3

46 <211> LENGTH: 53

47 <212> TYPE: DNA

48 <213> ORGANISM: Artificial Sequence

50 <220> FEATURE:

51 <223> OTHER INFORMATION: nucleotide sequence of the siRNA for HPV18 E7, designated

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53 <400> SEQUENCE: 3

54 gaaaacgatg aatagatgt tcaagagaca tctatttcat cgttttcttt ttt 53

57 <210> SEQ ID NO: 4

58 <211> LENGTH: 63

59 <212> TYPE: DNA

60 <213> ORGANISM: Artificial Sequence

62 <220> FEATURE:
63 <223> OTHER INFORMATION: nucleotide sequence of the siRNA for type A Influenza virus
PB2,
64 designated siPB2

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67 ggctatatattc aatatggaaa gaactcgagt ttgtttcttt ccatattgaa tatagccttt 60
69 ttg 63
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73 <211> LENGTH: 56
74 <212> TYPE: DNA
75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: nucleotide sequence of the siRNA for type A Influenza virus
pUR,
79 designated siUR
81 <400> SEQUENCE: 5
82 ggtcacgatc agaatacttc gctcgagcga agtattctga tcgtgaccct tttttg 56
85 <210> SEQ ID NO: 6
86 <211> LENGTH: 20
87 <212> TYPE: DNA
88 <213> ORGANISM: Artificial Sequence
90 <220> FEATURE:
91 <223> OTHER INFORMATION: IFN-beta forward primer
93 <400> SEQUENCE: 6
94 ataagcagct ccagctccaa 20
97 <210> SEQ ID NO: 7
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99 <212> TYPE: DNA
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112 <213> ORGANISM: Artificial Sequence
114 <220> FEATURE:
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126 <220> FEATURE:
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136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:

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148 <213> ORGANISM: Artificial Sequence
150 <220> FEATURE:
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160 <213> ORGANISM: Artificial Sequence
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163 <223> OTHER INFORMATION: GAPDH forward primer
165 <400> SEQUENCE: 12
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169 <210> SEQ ID NO: 13
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172 <213> ORGANISM: Artificial Sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: GAPDH reverse primer
177 <400> SEQUENCE: 13
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181 <210> SEQ ID NO: 14
182 <211> LENGTH: 15222
183 <212> TYPE: DNA
184 <213> ORGANISM: Human respiratory syncytial virus
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189 tgataagtac cacttaaatt taactccctt ggtagagat gggcagcaat tcattgagta    120
191 tgataaaagt tagattacaa aatttgtttg acaatgatga agtagcattg ttaaaaataa    180
193 catgctatac tgataaatta atacatttaa ctaacgcttt ggctaaggca gtgatacata    240
195 caatcaaatt gaatggcatt gtgtttgtgc atgttattac aagtagtgat atttgcccta    300
197 ataataatat tgtagtaaaa tccaatttca caacaatgcc agtactacaa aatggagggt    360
199 atatatggga aatgatggaa ttaacacatt gctctcaacc taatgggtcta ctagatgaca    420
201 attgtgaaat taaattctcc aaaaaactaa gtgattcaac aatgaccaat tatatgaatc    480
203 aattatctga attacttgga tttgatctta atccataaat tataattaat atcaactagc    540
205 aaatcaatgt cactaacacc attagttaat ataaaactta acagaagaca aaaatggggc    600
207 aaataaatca attcagccaa cccaaccatg gacacaaccc acaatgataa tacaccacaa    660
209 agactgatga tcacagacat gagaccgttg tcacttgaga ccataataac atcactaacc    720
211 agagacatca taacacacaa atttatatac ttgataaatc atgaatgcat agtgagaaaa    780
213 cttgatgaaa aacaggccac atttacattc ctgggtcaact atgaaatgaa actattacac    840
215 aaagtaggaa gcactaaata taaaaaatat actgaaatac acacaaaata tggcactttc    900
217 cctatgccaa tattcatcaa tcatgatggg ttcttagaat gcattggcat taagcctaca    960
219 aagcatactc ccataatata caagtatgat ctcaatccat aaatttcaac acaatattca   1020

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|-----|-------------|------------|------------|------------|------------|-------------|------|
| 221 | cacaatctaa | aacaacaact | ctatgcataa | ctatactcca | tagtccagat | ggagcctgaa | 1080 |
| 223 | aattatagta | attttaaatt | aaggagagat | ataagataga | agatggggca | aatacaaaga | 1140 |
| 225 | tggctcttag | caaagtcaag | ttgaatgata | caactcaaca | agatcaactt | ctgtcatcca | 1200 |
| 227 | gcaaatacac | catccaacgg | agcacaggag | atagtattga | tactccta | tatgatgtgc | 1260 |
| 229 | agaaacacat | caataagtta | tgtggcatgt | tattaatcac | agaagatgct | aatcataaat | 1320 |
| 231 | tcactggggt | aataggtagt | ttatatgcga | tgtctagggt | aggaagagaa | gacaccataa | 1380 |
| 233 | aaatactcag | agatgcggga | tatcatgtaa | aagcaaatgg | agtagatgta | acaacacatc | 1440 |
| 235 | gtcaagacat | taatggaaaa | gaaatgaaat | ttgaagtgtt | aacattggca | agcttaacaa | 1500 |
| 237 | ctgaaattca | aatcaacatt | gagatagaat | ctagaaaatc | ctacaaaaaa | atgctaaaag | 1560 |
| 239 | aatggggaga | ggtagctcca | gaatacaggc | atgactctcc | tgattgtggg | atgataatat | 1620 |
| 241 | tatgtatagc | agcattagta | ataactaaat | tagcagcagg | ggacagatct | ggtcttacag | 1680 |
| 243 | ccgtgattag | gagagcta | aatgtcctaa | aaaatgaaat | gaaacggtac | aaaggcttac | 1740 |
| 245 | tacccaagga | catagccaac | agcttctatg | aagtgtttga | aaaacatccc | cactttatag | 1800 |
| 247 | atgtttttgt | tcattttggg | atagcacaa | cttctaccag | aggtggcagt | agagttgaag | 1860 |
| 249 | ggatttttgc | aggattgttt | atgaatgcct | atggtgcagg | gcaagtgatg | ttacgggtggg | 1920 |
| 251 | gagtcttagc | aaaatcagtt | aaaaatatta | tgtaggaca | tgtagtggtg | caagcagaaa | 1980 |
| 253 | tggacaaggt | tgtagggtt | tatgaatatg | cccaaaaatt | gggtggtgaa | gcaggattct | 2040 |
| 255 | accatatatt | gaacaaccca | aaagcatcat | tattatcttt | gactcaattt | cctcacttct | 2100 |
| 257 | ccagtgtagt | attaggcaat | gctgctggcc | taggcataat | gggagagtac | agaggtagac | 2160 |
| 259 | cgaggaaatca | agatctatat | gatgcagcaa | aggcatatgc | tgaacaactc | aaagaaaatg | 2220 |
| 261 | gtgtgattaa | ctacagtgtg | ctagacttga | cagcagaaga | actagaggct | atcaaacatc | 2280 |
| 263 | agcttaatcc | aaaagataat | gatgtagagc | tttgagttaa | taaaaaatgg | ggcaaataaa | 2340 |
| 265 | tcatcatgga | aaagtttgct | cctgaattcc | atggagaaga | tgcaacaac | agggtacta | 2400 |
| 267 | aattcctaga | atcaataaag | ggcaatttca | catcacccaa | agatcccaag | aaaaaagata | 2460 |
| 269 | gtatcatatc | tgtcaactca | atagatatag | aagtaaccaa | agaaagccct | ataacatcaa | 2520 |
| 271 | attcaactat | tatcaaccca | acaaatgaga | cagatgatac | tgacgggaac | aagcccaatt | 2580 |
| 273 | atcaaagaaa | acctctagta | agtttcaaag | aagaccctac | accaagtgat | aatccctttt | 2640 |
| 275 | ctaaactata | caaagaaacc | atagaaacat | ttgataacaa | tgaagaagaa | tccagctatt | 2700 |
| 277 | catacgaaga | aataaatgat | cagacaaacg | ataatataac | agcaagatta | gataggattg | 2760 |
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| 291 | aactaaccaa | cccaatcatc | caaccaaaca | tccatccgcc | aatcagccaa | acagccaaca | 3180 |
| 293 | aaacaaccag | ccaatccaaa | actaaccacc | cggaaaaaat | ctataatata | gttacaaaaa | 3240 |
| 295 | aaggaaaggg | tggggcaaat | atggaaacat | acgtgaacaa | gcttcacgaa | ggctccacat | 3300 |
| 297 | acacagctgc | tggtcaatac | aatgtcttag | aaaaagacga | tgaccctgca | tcaattacaa | 3360 |
| 299 | tatgggtgcc | catgttccaa | tcattctatg | cagcagattt | acttataaaa | gaactagcta | 3420 |
| 301 | atgtcaacat | actagtga | caaatatcca | cacccaaggg | accttcacta | agagtcatga | 3480 |
| 303 | taaactcaag | aagtgcagtg | ctagcacaaa | tgcccagcaa | atttaccata | tgcgctaagt | 3540 |
| 305 | tgctccttga | tgaagaagc | aaactagcat | atgatgtaac | cacacctgt | gaaatcaagg | 3600 |
| 307 | catgtagtct | agcatgccta | aaatcaaaaa | atatgttgac | tacagttaa | gatctcacta | 3660 |
| 309 | tgaagacact | caaccctaca | catgatatta | ttgctttatg | tgaatttgaa | aacatagtaa | 3720 |
| 311 | catcaaaaaa | agtcataata | ccaacatacc | taagatccat | cagtgtcaga | aataaagatc | 3780 |
| 313 | tgaacacact | tgaaaatata | acaaccactg | aattcaaaaa | tgctatcaca | aatgcaaaaa | 3840 |
| 315 | tcacccctta | ctcaggatta | ctattagtca | tcacagtgac | tgacaacaaa | ggagcattca | 3900 |
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| 319 | gtatatatta | tgttaccaca | aattggaagc | acacagctac | acgatttgca | atcaaacc | 4020 |
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| 323 | attctttcact | tcaccatcac | aatcacaac | actctgtggt | tcaaccaatc | aaacaaaact | 4140 |
| 325 | tatctgaagt | cccagatcat | ccaagtcac | tgtttatcag | atctagtact | caaataagtt | 4200 |
| 327 | aataaaaaat | atacacatgg | ggcaataat | cattggagga | aatccaacta | atcacatat | 4260 |
| 329 | ctgttaacat | agacaagtc | acacaccata | cagaatcaac | caatggaaaa | tacatccata | 4320 |
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| 337 | tcatcaatcc | aacagcccaa | aacagtaacc | ttgcatttaa | aaatgaacaa | cccctacctc | 4560 |
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| 345 | cactctcaat | cattttattat | tcatatcatc | gtgcttatat | aagttaaact | ttaaatctgt | 4800 |
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| 351 | tgcaacaagc | cagatcaaga | acacaacccc | aacatacctc | accagaatc | ctcagcttgg | 4980 |
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| 355 | aacaccagga | gtcaagtcaa | ccctgcaatc | cacaacagtc | aagacaaaa | acacaacaac | 5100 |
| 357 | aactcaaa | caaccagca | agcccaccac | aaaacaacgc | caaaacaaac | caccaagcaa | 5160 |
| 359 | acccaataat | gattttcact | ttgaagtgtt | caactttgta | ccctgcagca | tatgcagcaa | 5220 |
| 361 | caatccaacc | tgctgggcta | tctgcaaaag | aataccaaac | aaaaaaccag | gaaagaaaac | 5280 |
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L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date